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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/721,806

11/25/2003

Thomas T. Hardt

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10/06/2005

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EXAMINER

EDWARDS, ANTHONY Q

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/721,806	HARDT ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Anthony Q. Edwards	2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 24 August 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 August 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 24, 2005 has been entered.

### ***Specification***

The amendment filed August 24, 2005 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: Fig. 5 now shows board 46 mounted "only to"/"directly to" the first drawer (28). As indicated in the previous Office Action, mailed June 10, 2005, there is no mention of this limitation in the as-filed specification. Applicant is required to cancel the new matter in the reply to this Office Action.

### ***Allowable Subject Matter***

The indicated allowability of claims 7, 8, 19 and 30 is withdrawn in view of the newly cited reference(s) to Manweiler et al. ('589) and/or Creason et al. Rejections based on the newly cited reference(s) follow.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1, 2 and 7-11, 13-25 and 27-30 are rejected under 35 U.S.C. 102(b) as anticipated by U.S. Patent No. 6,459,589 to Manweiler et al. ("Manweiler" hereinafter). Referring to claim 1, Manweiler discloses a computer chassis (10) comprising a chassis base (54), a first drawer (36) removably engaged with said chassis base (54), an interface board (76) mounted to said first drawer (36), i.e., said interface board mounted to said first drawer via connectors (74) and (86), wherein said interface board has a first side (see Figs. 11 and 12) arranged so as to couple a first electrical component (not numbered) when the first electrical component is located in the first drawer (see Fig. 8 and the corresponding specification), a second drawer (16) removably engaged with said chassis base (52), a motherboard (not numbered) inherently mounted to said second drawer so as to couple to a second electrical component (66) when the second electrical component is located in the second drawer (see Fig. 5 and the corresponding specification), and a connector (68) coupled mounted to said motherboard, wherein said connector (68) engages a second side of said interface board (see Figs. 9 and 10) so as to couple the first electrical component to the second electrical component when the first and second electrical components are located in the respective first and second drawers. See also Figs. 1, 3 and 4, and col. 4, lines 27-67 and col. 5, lines 1-8.

Referring to claim 2, Manweiler discloses a computer chassis, wherein said first and second drawers slidably engage said chassis base. See Figs. 5-8, which depict slidably engaging modules or drawers 16, 18, 34 and 36.

Referring to claim 7, Fig. 5 of Manweiler shows a computer chassis, wherein said motherboard is directly interconnected to said connector (68). See Fig. 5.

Referring to claim 8, Manweiler discloses a computer chassis, wherein the second electrical component (66) is directly connected to said motherboard when the second electrical component is located in the second drawer (16). See Fig. 5 and col. 4, lines 27-35.

Referring to claim 9, Manweiler discloses a computer chassis, wherein the first electrical component (not numbered) is directly connected to said interface board (76) when the first electrical component is located in the first drawer (36). See Fig. 8 and col. 4, lines 1-8.

Referring to claim 10, Manweiler discloses a computer, comprising a first electrical component (not numbered), a first drawer (36) operable to receive said first electronic component, a midplane board (76) affixed to said first drawer (i.e., said midplane board mounted to said first drawer via connectors (74) and (86)), and having a first side coupled to said first electrical component, a second electrical component (66), a second drawer (16) operable to receive said second electrical component, a motherboard (not numbered) inherently affixed to the second drawer (16) and coupled to the second electrical component (66), a connector (68) mounted to said motherboard, and a chassis base (52) supporting said first drawer (36) and said second drawer (16)

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such that said connector (68) is coupled to a second side of said midplane board (76).

See Figs. 4, 5 and 8-12.

Referring to claim 11, Fig. 8 of Manweiler shows a computer, wherein the first electrical component is horizontally received in the first drawer (36).

Referring to claim 13, Fig. 5 of Manweiler shows a computer, wherein the second electrical component (66) is vertically received by the second drawer (16).

Referring to claim 14, Manweiler discloses a computer chassis, wherein said motherboard (not shown) is mounted horizontally to the second drawer (16) and directly interconnected to said connector (68). See Fig. 5, which shows vertically connected devices (66) on a horizontally mounted motherboard having connectors (not shown) to receive the devices.

Referring to claim 15, Manweiler discloses a computer chassis, wherein the first component is a power supply module (34). See col. 4, lines 48-53.

Referring to claim 16, Manweiler discloses a computer chassis, wherein the second component is a processor module (66). See col. 4, lines 27-35.

Referring to claim 17, Manweiler discloses a computer chassis, further comprising a memory module mounted to said second drawer (16) and coupled to said motherboard. See Fig. 5 and col. 4, lines 28-30.

Referring to claim 18, Manweiler discloses a computer chassis, wherein the first electrical component is directly connected to the midplane (76). See col. 5, lines 1-8.

Referring to claim 19, Manweiler discloses a computer chassis, wherein the connector (68) is directly connected to the midplane board (76). See col. 5, lines 1-8.

Referring to claim 20, Manweiler discloses an electrical assembly comprising means for removably mounting an interface board (76) in a chassis (see Figs. 9-12 and the corresponding specification), means for coupling a first electrical component to one side of the interface board (see Figs. 8, 11 and 12 and the corresponding specification), means for coupling a motherboard to the other side of the interface board (see Figs. 5, 9 and 10), and means for coupling a second electrical component (66) to the motherboard (see Fig. 5 and the corresponding specification).

Referring to claim 21, Manweiler discloses an electrical assembly, wherein the first component is a power supply module (34). See col. 4, lines 48-53.

Referring to claim 22, Manweiler discloses an electrical assembly, wherein said second electrical component comprises a processor module (16) and a memory module. See Fig. 5 and col. 4, lines 28-30.

Referring to claim 23, Manweiler discloses an electrical assembly, wherein the interface board (76) is vertically mounted in the chassis. See Fig. 3 and col. 4, lines 56-66.

Referring to claim 24, Manweiler discloses an electrical assembly, wherein the means for coupling the electrical components to the interface board (76) slidably engage. See Figs. 9-12 and the corresponding specification.

Referring to claims 25 and 27-30, the method steps are necessitated by the device structure disclosed by Manweiler.

***Claim Rejections - 35 USC § 102/103***

Claim 12 and corresponding method claim 26, respectively, are rejected under 35 U.S.C. 102(b) as anticipated by Manweiler or, in the alternative, under 35 U.S.C. 103(a) as obvious over Manweiler in view of U.S. Patent No. 6594,150 to Creason et al. ("Creason" hereinafter). Figs. 3 and 4 of Manweiler show a midplane support (44) for vertically mounting (i.e., supporting in a vertical or upright orientation) the midplane board (76) to the first drawer. Manweiler does not specifically teach the midplane board affixed solely/directly to the first drawer (as shown in applicant's amended Fig. 4 of the drawings). Creason teaches a midplane board (308) affixed solely/directly to a first drawer (202). See Fig. 3 and the corresponding specification.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the first drawer of Manweiler to include a midplane board affixed solely/directly to the first drawer in a vertical or upright orientation, as taught by Creason, since affixing the midplane board in this manner would allow a user to replace the midplane board without having to remove the top of the chassis.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Manweiler. Referring to claim 3, Manweiler discloses the invention as claimed, except



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for further comprising a latch operable to secure said first drawer (36) to said chassis base. Manweiler does teach, however, providing a hand-operable latch (not numbered) at the front of the second drawer (16) for securing the same to the chassis base. It is well known in the art of computer chassis assembly systems to rearrange parts where needed (see *In re Japikse*, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950)).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Manweiler, such that the hand-operable latch provided at the front of the second drawer (16) is also provided on the first drawer (36) to secure the same to the chassis base, since this would provide securing means for both drawers.

Referring to claims 4 and 5, Manweiler discloses the invention as claimed, including the first and second drawers comprising a power supply bay, a hard drive bay, a media module bay, expansion card bay, a processor bay, a cooling system bay, and a memory bay. See Figs. 5, 6 and 8, as well as col. 4, lines 27-55. Manweiler does not teach the bays specifically located as recited in the claims. It is well known, however, in the art of computer chassis assembly systems to rearrange parts where needed (see *In re Japikse*, 181 F.2d 1019, 86 USPQ 70 (CCPA 1950)).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device of Manweiler, such that the power supply bay, the hard drive bay, and the media module bay are located in the first drawer and to, likewise, include the expansion card bay, the processor bay, the cooling system bay, and the

memory bay in the second drawer, since it has been held that rearranging parts of an invention involves only routine skill in the art.

### ***Response to Arguments***

Applicant's arguments with respect to claim have been considered but are moot in view of the new ground(s) of rejection.

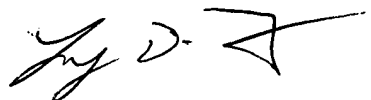
### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Q. Edwards whose telephone number is 571-272-2042. The examiner can normally be reached on M-F (7:30-3:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn D. Feild can be reached on 571-272-2800, ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 30, 2005  
aqe

  
**LYNN FEILD**  
**SUPERVISORY PATENT EXAMINER**  
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